

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Keisha Douglas

Timestamp: [year=2008; month=5; day=29; hr=18; min=33; sec=55; ms=330;]

=====

Application No: 10577696

Version No: 3.1

Input Set:

Output Set:

Started: 2008-05-29 18:31:40.308

Finished: 2008-05-29 18:31:46.247

Elapsed: 0 hr(s) 0 min(s) 5 sec(s) 939 ms

Total Warnings: 990

Total Errors: 0

No. of SeqIDs Defined: 990

Actual SeqID Count: 990

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

Input Set:

Output Set:

Started: 2008-05-29 18:31:40.308
Finished: 2008-05-29 18:31:46.247
Elapsed: 0 hr(s) 0 min(s) 5 sec(s) 939 ms
Total Warnings: 990
Total Errors: 0
No. of SeqIDs Defined: 990
Actual SeqID Count: 990

Error code

Error Description

This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> Jackson, Aimee L.
 Bartz, Steven R.
 Burchard, Julja,
 Linsley, Peter S.
 Ge, Wei
 Cavet, Guy L.

<120> METHOD OF DESIGNING siRNAS FOR GENE
 SILENCING

<130> 9301-244-999

<140> 10/577,696

<141> 2006-04-27

<150> PCT/US2004/035636

<151> 2004-10-27

<150> 60/515,180

<151> 2003-10-27

<150> 60/572,314

<151> 2004-05-17

<160> 990

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> an example of siRNA

<400> 1

gcgttaatgt gataatata

19

<210> 2

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

<400> 2

tgttggtccgg ctgatggac

19

<210> 3

<211> 19

<212> DNA

<213> Artificial Sequence

<220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

<400> 3
 actcttactg ctctccagt 19

<210> 4
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

<400> 4
 cttaacacgg atgctggtg 19

<210> 5
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

<400> 5
 ggagagcttt ctaggacct 19

<210> 6
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

<400> 6
 agtcacccg cagagccgc 19

<210> 7
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

<400> 7
 atcgtagtgc ttgtactta 19

<210> 8

<211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 8
 ggagacgtac cgctgcatc 19

 <210> 9
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 9
 gcagtgattg ctcagcagc 19

 <210> 10
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 10
 gagtttaccg accaccaag 19

 <210> 11
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 11
 tgcggatgcc attcagtgg 19

 <210> 12
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 12

cacggttggc agagtctat 19

<210> 13

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 13

gcaagttgag ctctaccgc 19

<210> 14

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 14

tggccagcgc ttactggaa 19

<210> 15

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 15

gttcaaaagc tggatgac 19

<210> 16

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 16

ggcctctata cccctcaaa 19

<210> 17

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand

in construction of siRNA library

<400> 17

agaaccgaat cgtctagag

19

<210> 18

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 18

cacgatgcat agccatcct

19

<210> 19

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 19

cagagacaga atctacact

19

<210> 20

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 20

caacagaagg ttgtcttgt

19

<210> 21

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 21

ttgtgtgtgg gaccgtaat

19

<210> 22

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 22
gctcacggtc attaccgag 19

<210> 23
<211> 19
<212> DNA
<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 23
cctgaggaac attactcgg 19

<210> 24
<211> 19
<212> DNA
<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 24
tgctgacctc tgttacctc 19

<210> 25
<211> 19
<212> DNA
<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 25
cgacacggcc tgtgtagct 19

<210> 26
<211> 19
<212> DNA
<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 26
cggcagccag agcatgtac 19

<210> 27

<211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 27
 ccagaacttg cagcaactg 19

 <210> 28
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 28
 cctcacggtc atccgcggc 19

 <210> 29
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 29
 ctacgccctg gtcattcttc 19

 <210> 30
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 30
 tctcaaggat attgggctt 19

 <210> 31
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 31

ggatattggg ctttacaac 19

<210> 32

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 32

cattactcgg ggggccatc 19

<210> 33

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 33

aatgctgacc tctgttacc 19

<210> 34

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 34

ctggatcgta agaaggcag 19

<210> 35

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 35

tggaaggtga aaggtcacc 19

<210> 36

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand

in construction of siRNA library

<400> 36
ggacaactgc agctactct 19

<210> 37
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 37
tacggactca ccttgcttg 19

<210> 38
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 38
gtatatacat tcagctgac 19

<210> 39
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 39
ggaacacccc ccgcttattc 19

<210> 40
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 40
gtggccgata cttatgata 19

<210> 41
<211> 19
<212> DNA
<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 41
atgtgattgg tctgttgga 19

<210> 42
<211> 19
<212> DNA
<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 42
gtcatcagct ttgtgccac 19

<210> 43
<211> 19
<212> DNA
<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 43
taattcacag ggacctaaa 19

<210> 44
<211> 19
<212> DNA
<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 44
tgcctacttt gctcagtac 19

<210> 45
<211> 19
<212> DNA
<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 45
cctacagaga actgcggtt 19

<210> 46

<211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 46
 ttctccgagg tctaaagta 19

 <210> 47
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 47
 ccagtggccg atccttatg 19

 <210> 48
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 48
 ggcccttttca cggaactc 19

 <210> 49
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 49
 ctgaagaagc tactgcttg 19

 <210> 50
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 50

gacatgcgaa tgacactag 19

<210> 51

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 51

agaggaactc tctgcaagc 19

<210> 52

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 52

aaactgggag gctacttac 19

<210> 53

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 53

actgacaaca aagtgcagc 19

<210> 54

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 54

ctcacattgt ccaccagga 19

<210> 55

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand

in construction of siRNA library

<400> 55

gacctgtgcc ttttagaga

19

<210> 56

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 56

gacttcattg acagtggcc

19

<210> 57

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 57

aaaggacaac tgcagctac

19

<210> 58

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 58

tggaggggaa tgctcagaa

19

<210> 59

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 59

taaagatggc actttcccg

19

<210> 60

<211> 19

<212> DNA

<213> Artificial Sequence

<220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

<400> 60
 aaggcagcta aaggaagtg 19

<210> 61
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

<400> 61
 tattgggccca gcagattac 19

<210> 62
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

<400> 62
 ttatgacgct aggccacaa 19

<210> 63
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

<400> 63
 ggagaaagat ccctttgag 19

<210> 64
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

<400> 64
 acaaaaacgg agatccgtc 19

<210> 65

<211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 65
 ataagcagca agaaacggc 19

 <210> 66
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 66
 gaatttcggg ctactttgg 19

 <210> 67
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 67
 cgcaccttcc atgtggaga 19

 <210> 68
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 68
 agacgttttt gtgctgtgg 19

 <210> 69
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 69

gctggagaac ctcatgctg

19

<210> 70

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 70

ctctaccact gaagagttg

19

<210> 71

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand